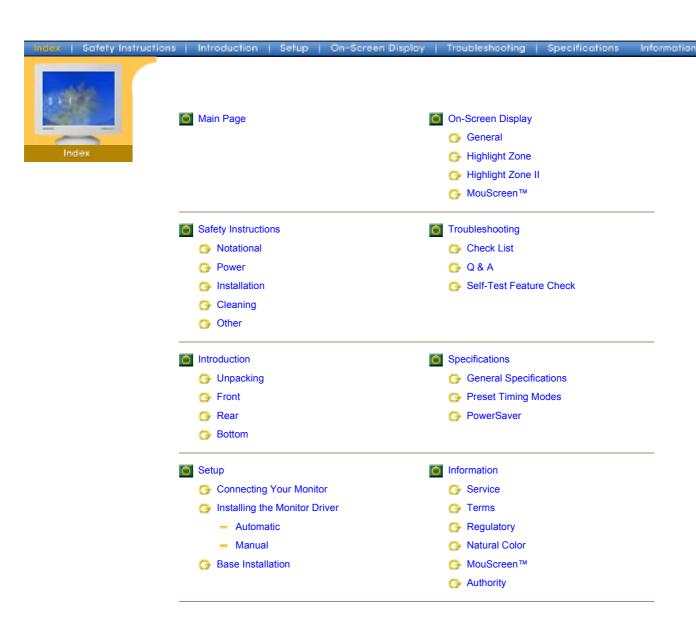


SyncMaster 1100DF



ndex | <mark>Safety Instructions |</mark> Introduction | Setup | On-Screen Display | Troubleshooting | Specifications Information



SQUARY INSTRUCT

Notational

Power

► Installation

Clear

► Other

Please read the following safety instructions as they are designed to prevent damage to property and harm to the user.



Warning / Caution



Failure to follow directions noted by this symbol could result in bodily harm or damage to equipment.

Notational Conventions



Prohibited



Important to read and understand at all times



Do not disassemble



Disconnect the plug from the outlet



Do not touch



Grounding to prevent an electric shock



- Notational
- Power
- Installation
- Cloan
- Other



When not used for extended periods of time, set your computer to DPMS. If using a screen saver, set it to the active screen mode.

 If the size of your monitor is small, or if the same image is present for long periods of time, you may see afterimages due to damage to the fluorescent substance on the inside of the CDT.



Do not use a damaged or loose plug.

• This may cause an electric shock or fire.



Do not pull the plug out by the wire nor touch the plug with wet hands.

This may cause an electric shock or fire.



Use only a properly grounded plug and receptacle.

 An improper ground may cause electric shock or equipment damage.



- Do not excessively bend the plug and wire nor place heavy objects upon them, which could cause damage.
 - Failure to do so may cause an electric shock or fire.



- Disconnect the plug from the outlet during storms or lightening or if it is not used for a long period of time.
 - Failure to do so may cause an electric shock or fire.



- Do not connect too many extension cords or plugs to an outlet.
 - This may cause a fire.



- Sofety Instruc
- NotationalPower
- ► Installation
- ► Clean
- ▶ Other



- Do not cover the vents on the monitor cabinet.
 - Bad ventilation may cause a breakdown or fire.



- Put your monitor in a location with low humidity and a minimum of dust.
 - An electric shock or fire could result inside the monitor.



- Do not drop the monitor when moving it.
 - This may cause damage to the product or human body.



- Place the monitor on a flat and stable surface.
 - The monitor can cause injury by falling.



- Set down the monitor carefully.
 - It could be damaged or broken.



- Do not place the monitor face down.
 - The CDT surface may be damaged.



- Do not use the monitor without the monitor stand.
 - It could break down or cause a fire due to bad ventilation.
 - If the monitor must be used without the supplied stand, take steps to insure proper ventilation.



- Notational
- ► Power
- Installation
- Clean
- ▶ Other



When cleaning the monitor case or the surface of the CDT, wipe with a slightly moistened, soft fabric.

Do not clean Flat monitor with water. Use a water-diluted mild detergent.

(Some detergents contain significant amounts of alcohol-based solvents, which can damage (color change) or crack the monitor case. The antiglare/anti-static surface coating on the CDT may also be affected.)

Dilute the detergent (1:10 ratio) with water before using.



Do not spray detergent directly on the monitor.



Use the recommended detergent with a smooth cloth.

- You can prevent the coated CDT from being damaged or the monitor cabinet from being dissolved, cracked or discolored.
- You can buy a recommended detergent at any Samsung Service Center.



Caution: Use a recommended detergent only, as other surfactants containing large amounts of alcohol, solvent or other strong substances, can discolor or crack the monitor or damage the coated CDT.



- If the connector between the plug and the pin is dusty or dirty, clean it properly with a dry cloth.
 - A dirty connector can cause an electric shock or fire.



- Do not set a glass of water, chemicals or any small metal objects on the monitor.
 - This may cause damage, electric shock or a fire.
 - If a foreign substance gets into the monitor, disconnect the plug and then contact a service center.



- Notational
- Power
- ► Installation
- ► Clear
- Other



- Do not remove cover(or back). No user serviceable parts inside.
 - This may cause an electric shock or a fire.
 - Refer servicing to qualified service personnel.



- If your monitor does not operate normally in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service.
 - This may cause an electric shock or a fire.



- Do not place any heavy objects on the monitor.
 - · This may cause an electric shock or a fire.



- For each hour of looking at the monitor, you should let your eyes rest for 5 minutes.
 - This will reduce eye fatigue.



- Do not use or store inflammable substances near the monitor.
 - This may cause an explosion or fire.



- Do not try to move the monitor by pulling on the wire or the signal cable.
 - This may cause a breakdown, electric shock or a fire due to damage to the cable.



- Do not move the monitor right or left by pulling only the wire or the signal cable.
 - This may cause a breakdown, electric shock or a fire due to damage to the cable.

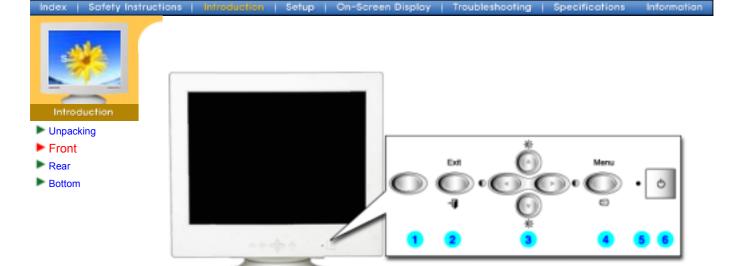


- Never insert anything metallic into the monitor openings.
 - This may cause an electric shock, fire or injury.



- Keep the monitor away from any magnetic substances.
 - This may cause discoloring or distortion of the image.





1. Highlight button The Highlight Zone ensures clear images on TVs, video conferencing

systems or photos by emphasizing a certain area on the screen.

2. Exit button Use this button for Exit the active menu or the OSD.

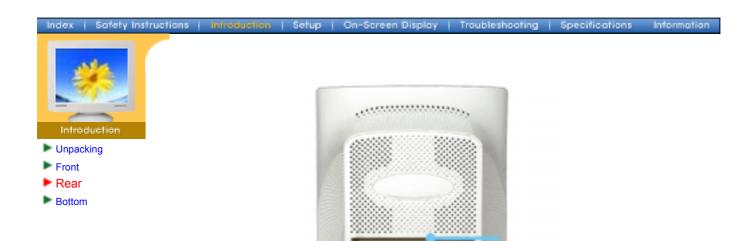
3. Adjust buttons These buttons allow you to highlight and adjust items in the menu.4. Menu button Use this button for open the OSD and activate a highlighted menu item.

5. Power indicator This light glows green during normal operation, and blinks green once as

the monitor saves your adjustments.

6. Power button Use this button for turn the monitor on and off.

Note: See PowerSaver described in the manual for further information regarding power saving functions. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods.



(The configuration at the back of the monitor may vary from product to product.)

1. Power port	Connect the power	cord for yo	our monitor to the	power port on the back of
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the monitor.

2. Signal port Connect the signal cable to the 15-pin D-sub connector on the back of

your monitor.

3. BNC Connectors Connect the signal cable to the BNC signal port on the back of your

(Option) monitor.

4. USB Connector Connect the USB cable to the USB port on the back of your monitor.

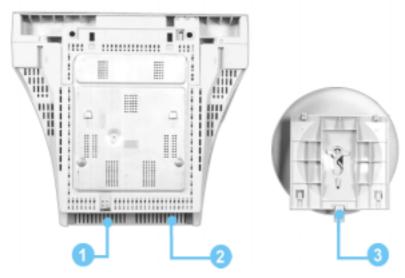
(Option)

Note: See Connecting Your Monitor for further information regarding cable connections.

Setup | On-Screen Display | Troubleshooting | Specifications



- Unpacking
- ► Front
- ► Rear
- **▶** Bottom

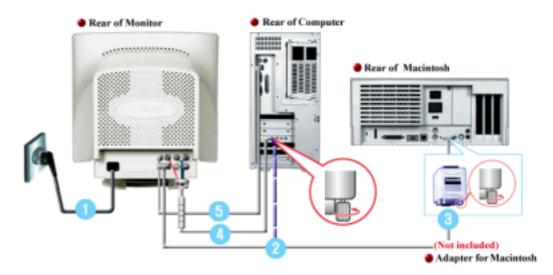


- Connect the signal cable to the video port on your computer, video board, video card, or graphics card. 1. Signal Cable
- 2. Power port Connect the power cord for your monitor to the power port on the back of the monitor.
- 3. Tilt/Swivel Base You can separate the base from the monitor.

ndex | Safety Instructions | Introduction | Solup | On-Screen Display | Troubleshooting | Specifications Information



- Connecting Your Monitor
- Installing the Monitor Driver
- ► Base Installation



- 1. Connect the power cord for your monitor to the power port on the back of the monitor. Plug the power cord for the monitor into a nearby outlet.
- 2. Connect the signal cable to the 15-pin D-sub connector on the back of your monitor. Connect the signal cable to the video port on your computer, video board, video card, or graphics card.
- 3. If you are using a Macintosh computer, connect the cable to a Macintosh adapter, and set the pins on your adapter(Adapter not included). A PC-compatible computer does not need an adapter.
- 4. Connect the signal cable to the BNC signal port on the back of your monitor/computer.(Option)
- 5. Connect the USB cable to the USB port on the back of your monitor/computer.(Option)
- 6. Turn on your computer and monitor. If your monitor displays an image, installation is complete.



Connecting Your Monitor

- Installing the Monitor Driver
- ► Base Installation

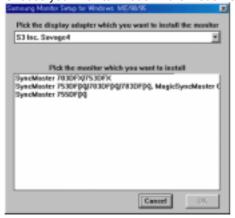
When prompted by the operating system for the monitor driver, insert the CD-ROM included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions as appropriate for the operating system you have.

Prepare a blank disk and download the driver program file at the Internet web site shown here.

Internet web site: http://www.samsung-monitor.com/ (Worldwide)
 http://www.samsungusa.com/monitor/ (USA)
 http://www.sec.co.kr/monitor/ (Korea)
 http://www.samsungmonitor.com.cn/ (China)

Windows ME

- 1. Insert CD into the CD-ROM driver.
- 2. Click "Windows ME Driver".
- 3. Choose your monitor model in the model list, then click the "OK" button.



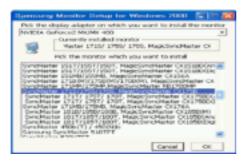
4. Click the "Install" button in the "Warning" window.



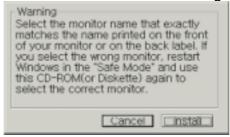
5. Monitor driver installation is completed.



- 1. Insert CD into the CD-ROM driver.
- 2. Click "Windows XP/2000 Driver".
- 3. Choose your monitor model in the model list, then click the "OK" button.



4. Click the "Install" button in the "Warning" window.



5. If you can see following **"Message"** window, then click the **"Continue Anyway"** button. Then click **"OK"** button.



This monitor driver is under certifying MS logo,and this installation don't damage your system. The certified driver will be posted on Samsung Monitor Homepage http://www.samsung-monitor.com/

6. Monitor driver installation is completed.



- Connecting Your Monitor
- Installing the Monitor Driver
- ► Base Installation
- Automatic Manual

 Windows XP | Windows 2000 | Windows Me | Windows NT | Linux

When prompted by the operating system for the monitor driver, insert the CD-ROM included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions as appropriate for the operating system you have.

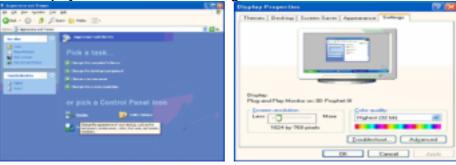
Prepare a blank disk and download the driver program file at the Internet web site shown here.

- Internet web site: http://www.samsung-monitor.com/ (Worldwide)
 http://www.samsungusa.com/monitor/ (USA)
 http://www.sec.co.kr/monitor/ (Korea)
 http://www.samsungmonitor.com.cn/ (China)
- Microsoft[®] Windows[®] XP Operating System

Insert CD into the CD-ROM driver.

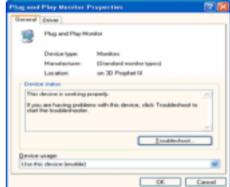


3. Click "Display" icon and choose the "Settings" tab then click "Advanced.."

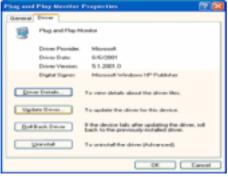


4. Click the "Properties" button on the "Monitor" tab and select "Driver" tab.





5. Click "Update Driver.." and select "Install from a list or.." then click "Next" button.

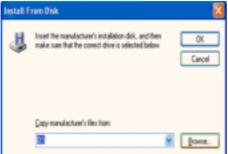


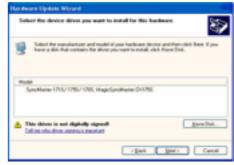


6. Select "Don't search, I will..." then click "Next" and then click "Have disk".

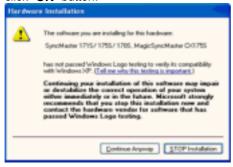


7. Click the "Browse" button then choose A:(D:\Driver) and choose your monitor model in the model list and click the "Next" button.



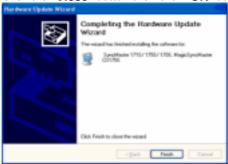


8. If you can see following "Message" window, then click the "Continue Anyway" button. Then click "OK" button.



This monitor driver is under certifying MS logo, and this installation don't damage your system. The certified driver will be posted on Samsung Monitor Homepage http://www.samsung-monitor.com/

9. Click the "Close" button then click "OK" button continually.







10. Monitor driver installation is completed.

Microsoft® Windows® 2000 Operating System

- 🔯 When you can see "Digital Signature Not Found" on your monitor, follow these steps.
 - 1. Choose "OK" button on the "Insert disk" window.
- 2. Click the "Browse" button on the "File Needed" window.
- Choose A:(D:\Driver) then click the "Open" button and then click "OK" button.

🔯 How to install

- 1. Click "Start", "Setting", "Control Panel".
- 2. Double click the "Display" Icon.
- 3. Choose the "Settings" tab and then click "Advanced..".
- 4. Choose "Monitor".
 - Case1: If the "Properties" button is inactive, it means your monitor is properly configured. Please stop installation
 - Case2: If the "Properties" button is active, click the "Properties" button then follow next steps continually.
- 5. Click "Driver" and then click on "Update Driver.." then click on the "Next" button.
- 6. Choose "Display a list of the known drivers for this device so that I can choose a specific driver" then click "Next" and then click "Have disk".
- Click the "Browse" button then choose A:(D:\Driver).
- 8. Click the "Open" button, then click "OK" button.
- 9. Choose your monitor model and click the "Next" button then click "Next" button.
- 10. Click the "Finish" button then the "Close" button.

If you can see the "Digital Signature Not Found" window then click the "Yes"button. And click the "Finish" button then the "Close" button.

Microsoft[®] Windows[®] Millennium Operating System

- Click "Start", "Setting", "Control Panel".
 Double click "Display" icon.
 Select the "Settings" tab and click "Advanced Properties" button.
- 4. Select the "Monitor" tab.
- 5. Click the "Change" button in the "Monitor Type" area.
- 6. Choose "Specify the location of the driver".

- 7. Choose "Display a list of all the driver in a specific location.." then click "Next" button.
- 8. Click the "Have Disk" button
- 9. Specify A:\(D:\driver) then click "OK" button.
- 10. Select "Show all devices" and choose the monitor that corresponds to the one you connected to your computer and click "OK".
- 11. Continue choosing "Close" button and "OK" button until you close the Display Properties dialogue box.
 - (You can get some other screen for warning message or others, then click the appreciate option for your monitor.)

Microsoft[®] Windows[®] NT Operating System

- 1. Click Start, Settings, Control Panel, and then double-click Display icon.
- In Display Registration Information window, click Settings Tab and then click All Display Modes.
- Select a mode that you wish to use (Resolution, Number of colors and Vertical frequency) and then click OK.
- 4. Click **Apply** button if you see the screen working normally after clicking Test. If the screen is not normal, change to a different mode (lower mode of resolution, colors or frequency).

Note: If there is no Mode at **All Display Modes**, select the level of resolution and vertical frequency by referring to the Preset Timing Modes in the user guide.

Linux Operating System

To execute X-Window, you need to make the X86Config file, which is a type of system setting file.

- 1. Press Enter at the first and the second screen after executing the X86Config file.
- 2. The third screen is for setting your mouse.
- 3. Set a mouse for your computer.
- 4. The next screen is for selecting a keyboard.
- 5. Set a Keyboard for your computer.
- 6. The next screen is for **setting your monitor**.
- 7. First of all, set a **horizontal frequency** for your monitor. (You can enter the frequency directly.)
- 8. Set a **vertical frequency** for your monitor. (You can enter the frequency directly.)
- Enter the model name of your monitor. This information will not affect the actual execution of X-Window.
- 10. You have **finished** setting up your monitor.

Execute X-Window after setting other requested hardware.



- Connecting Your Monitor
- Installing the Monitor Driver
- ► Base Installation



With the built-in pedestal, you can tilt and/or swivel the monitor for the most comfortable viewing angle.



Note: The base is detachable.





Attaching the Base

- 1. Place the monitor upside-down on a flat work surface.
- 2. Align the tabs on the base with the corresponding slots on the bottom of the monitor.
- 3. Press the base onto the monitor until the tabs are fully engaged in the slots.
- 4. Push the base toward the front of the monitor until the release latch clicks into the locked position.
 - * Do not bend the snap.

Removing the Base

- 5. Squeeze and pull up on the release latch on the base.
- 6. Push the base toward the back of the monitor and lift up to remove the base.

Note: The base will align with the monitor slots in only one position.



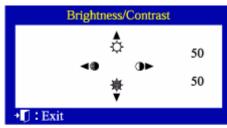


- 1. **Highlight button:** The Highlight Zone ensures clear images on TVs, video conferencing systems or photos by emphasizing a certain area on the screen.
- 2. **Exit button:** Use this button to Exit the active menu or the OSD.
- 3. **Adjust buttons:** These buttons allow you to highlight and adjust items in the menu.
- 4. **Menu button:** Use this button to open the OSD and activate a highlighted menu item.



Menu

How to adjust

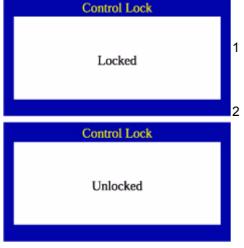




Brightness/Contrast

Adjust Brightness and Contrast.

- Push the () or (****) button. The brightness/contrast display will appear.
- Push the button to increase the brightness or the button to decrease the brightness.
- Push the button to increase the contrast or the button to decrease the contrast.



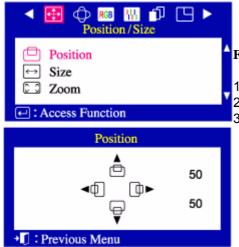
OSD lock/unlock

- Push and hold in the Menu () button for 10 seconds or more to Lock the OSD
 - (In this case, even if you click the Menu button(\blacksquare), the control screen will not be printed.)
 - Push and hold in the Menu () button for 10 seconds or more to UnLock the OSD.



Menu

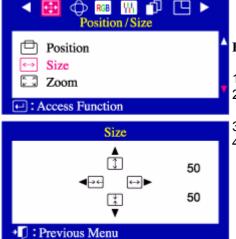
How to adjust



Position

Follow these instructions to change the Position of the monitor's entire display.

- Push the Menu(😛) button.
- Push the Menu() button to open the Position adjustment screen. Use the and buttons to change the vertical position of the monitor's viewing area; use the and buttons to change the horizontal position of the monitor's viewing area.



Size

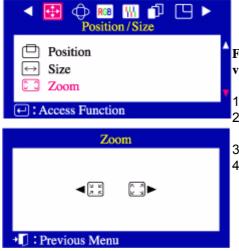
Follow these instructions to change the size of the monitor's entire display.

- Push the Menu(😛) button.
- Push the button or button until the Position/Size screen is displayed. push the button or button to select Size.
- Push the Menu(📦) button to open the Size adjustment screen.
- 4 Use the and buttons to change the vertical size of the monitor's viewing area; use the and buttons to change the horizontal size of the monitor's viewing area.



Menu

How to adjust

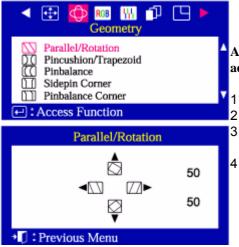




Follow these instructions to get a close-up or a longshot view of the monitor's viewing area.

- Push the Menu (📦) button.
- 2 Push the button or button until the Position/Size screen is displayed. Push the button or button to select zoom.
- Push the Menu (📦) button to open the zoom adjustment screen.
- Use the button to decrease the screen viewing area.

 Use the button to enlarge the screen viewing area.



Parallel/Rotation

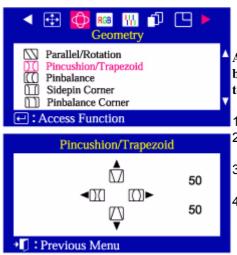
Adjust the parallelogram setting when the display is leaning left or right; adjust the rotation setting when the entire display is tilted left or right.

- Push the Menu (😛) button.
- 2 Push the button or button until the Geometry screen is displayed.
- Push the Menu () button to open the Parallel/Rotation adjustment screen.
- Use the button or button to adjust the parallel setting; Use the button or button to adjust the rotation setting.



Menu

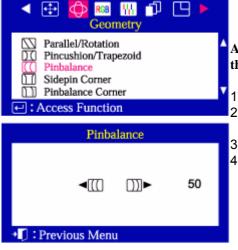
How to adjust



Pincushion/Trapezoid

Adjust the pincushion setting when the sides of the display are bowed in or bowed out; adjust the trapezoid setting when the top or bottom of the display is too large or small.

- Push the Menu (🗐) button.
- Push the button or button until the Geometry screen is displayed. push the button or button to select Pincushion/Trapezoid.
- Push the Menu () button to open the Pincushion/Trapezoid adjustment screen.
 - Use the button or button to adjust the pincushion setting; Use the button or button to adjust the trapezoid setting.



Pinbalance

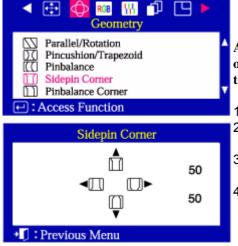
Adjust the pinbalance setting when the sides of the display are bowed towards the left or right.

- Push the Menu (🔑) button.
- Push the button or button until the Geometry screen is displayed.
 Push the button or button to select Pinbalance.
- Push the Menu (<a>) button to open the Pinbalance adjustment screen.
- Use the button or button to adjust the Pinbalance setting.



Menu

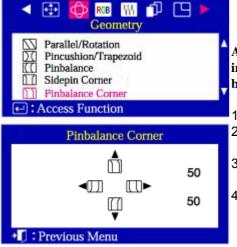
How to adjust



Sidepin Corner

Adjust the sidepin corner correction when the sides of the display are bowed in or bowed out; adjust the side pin corner correction when the top or bottom of the display is too large or small.

- Push the Menu(😛) button.
- Push the button or button until the Geometry screen is displayed. Push the button or button to select SidePin Corner.
- Push the Menu() button to open the SidePin Corner adjustment screen.
 - Use the or buttons to adjust the SidePin Corner correction.



Pinbalance Corner

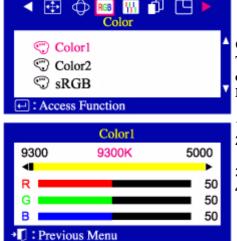
Adjust the Pinbalance Corner correction when the sides of the display are bowed in or bowed out; adjust the side pinbalance corner correction when the top or bottom of the display is too large or small.

- 1 Push the Menu() button.
- Push the button or button until the Geometry screen is displayed. Push the button or button to select Pinbalance Corner.
- Push the Menu() button to open the Pinbalance Corner adjustment screen.
- 4 Use the or buttons to adjust the Pinbalance Corner correction.



Menu

How to adjust

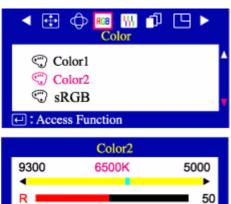


Color1

Color temperature is a measure of the 'warmth' of the image colors. The available range is between 5000 to 9300K. Follow these steps to change the color temperature and adjust individual R,G,B color control.

Note: Recall does not reset the color settings.

- Push the Menu(🗐) button.
- 2 Push the button or button until the Color screen is displayed. Use the button or button to select Color1.
- Push the Menu(📦) button to open the Color1 adjustment screen.
- Adjust the color temperature as close to the desired temperature as possible using only the and buttons. To fine tune the color hue, use the or button to select R(ed), G(reen) or B(lue), then use the and buttons until you reach the desired color.



Previous Menu

50

50

Color2

Color temperature is a measure of the 'warmth' of the image colors. The available range is between 5000 to 9300K. Follow these steps to change the color temperature and adjust individual R,G,B color control.

Note: Recall does not reset the color settings.

- 1 Push the Menu(📦) button.
- 2 Push the button or button until the Color screen is displayed. Use the button or button to select Color2.
- 3 Push the Menu(📦) button to open the Color2 adjustment screen.
- Adjust the color temperature as close to the desired temperature as possible using only the and buttons.

To fine tune the color hue, use the or button to select R(ed), G(reen) or B(lue), then use the and buttons until you reach the desired color.



Menu

How to adjust

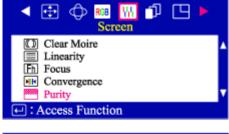


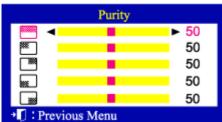


sRGB

When you adjust the Brightness and Contrast after sRGB mode is selected, sRGB mode exits. sRGB mode works in Digital input.

- 1. Push the Menu (📦) button.
- 2. Push the ◀ button or ▶ -button until the Color screen is displayed.
- 3. Push the ▲ and ▼-button to select Color1, Color2 or sRGB





Purity

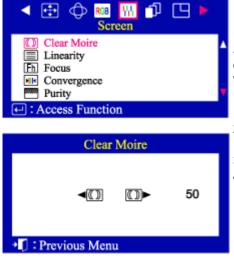
Adjust the color purity of the picture.

- 1 Push the Menu(🕡) button.
- 2 Push the button or button until the Screen OSD is displayed.
- 3 Push the Menu(📦) button to open the Purity adjustment screen.
- Use the button or button to select the adjustment area, and the button or button to perform the adjustment.



Menu

How to adjust

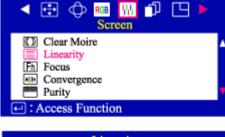


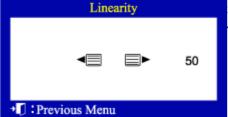
Clear Moire

A 'moire' pattern can appear on your screen, looking like a series of concentric circles or arcs.

To eliminate this pattern, use the clear moire adjustments.

- 1 Push the Menu(🕡) button.
- 2 Push the button or button until the Screen OSD is displayed.
 Push the button or button to select Clear Moire.
- 3 Push the Menu(📦) button to open the Clear Moire adjustment screen.
 - Use the button or button to adjust horizontal moire; use the button or button to adjust vertical moire.





Linearity

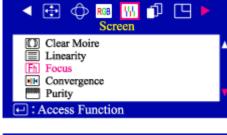
Adjust the linearity setting when the display image is compressed at the left, right or top, bottom.

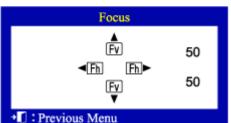
- Push the Menu(🕡) button.
- Push the button or button until the Screen OSD is displayed. Push the button or button to select Linearity.
- Push the Menu(📦) button to open the Linearity adjustment screen.
- Use the button or button to adjust the vertical Linearity.



Menu

How to adjust



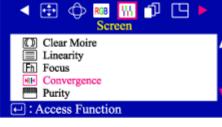


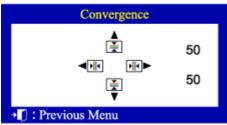
Focus

Use the focus control when the image displayed on the screen is not sharp in all areas.

- Push the Menu (🕡) button.
- Push the button or button until the Screen OSD is displayed. Push the button or button to select Focus.
- Push the Menu (📦) button to open the Focus adjustment screen.
- 4 Use the button or button to adjust the focus along the left and right areas of the screen.

Use the button or button to adjust the center area of the screen.





Convergence

Convergence affects picture clarity. Adjust the horizontal or vertical convergence to properly align the color dots that make up the image.

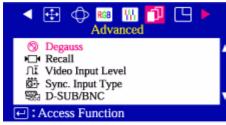
- Push the Menu (📦) button.
- Push the button or button until the Screen OSD is displayed. Push the button or button to select Convergence.
- Push the Menu () button to open the Convergence adjustment screen.
 - Use the button or button to adjust the horizontal convergence.

 Use the button or button to adjust the vertical convergence.



Menu

How to adjust





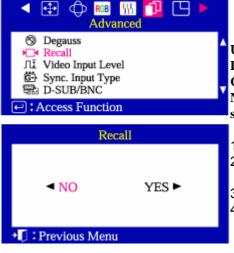
The Degauss feature will remove color impurities caused by magnetic fields. Do not use the Degauss feature more than once within a 30-minute period.

Note: The monitor may buzz momentarily, the image colors may change and the image will jiggle for a few seconds. These effects are normal.



- Push the Menu(📦) button.
- 2 Push the button or button until the Advanced screen is displayed.
- Push the Menu() button to execute the degauss function.

 The degaussing screen will appear. After a few seconds, the degauss main menu will return.



Recall

Use the recall feature to reset these monitor settings to their original levels: Position, Size, Pincushion, Trapezoid, Parallelogram, Pinbalance, Rotation, Clear Moire.

Note: If you have selected "Yes", all settings listed above will be reset. All other settings will remain the same.

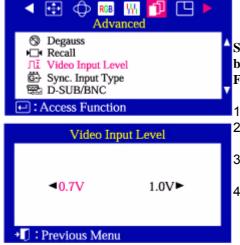
- Push the Menu(😛) button.
- 2 Push the button or button until the Advanced screen is displayed.

 Push the button or button to select Recall.
- 3 Push the Menu(📦) button to open the recall selection screen.
- 4 Push the button to select YES.
 If you don't want to reset the monitor, use the button to select NO.



Menu

How to adjust

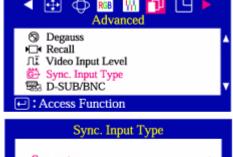


Video Input Level

Some video cards use video signals higher than 1.0V which causes the display to be very bright.

For those video cards, use this feature to select the 1.0 V Level.

- Push the Menu (🛺) button.
- Push the button or button until the Advanced screen is displayed. Push the button or button to select Video Input Level.
- 3 Push the Menu () button to open the Video Input Level selection screen.
 - Use the or buttons to select 0.7 V or 1.0 V.



Sync. on Green

◆
☐ : Previous Menu

Sync. Input Type

Use this menu to set your monitor to the correct type of synchronization. Select 'Separate' if the computer is sending a separate synchronization signal. Select 'Sync. on Green' if the computer expects the monitor to synchronize with the green signal it sends. Refer to your computer or video card user's manual to determine the correct setting.

- Push the Menu (🛺) button.
- 2 Push the button or button until the Advanced screen is displayed. Push the button or button to select Sync. Input Type.
- 3 Push the Menu () button to open the Sync. Input Type selection screen.
- Use the button or button to select Separate or Sync. on Green.



Menu

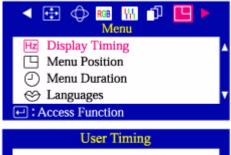
How to adjust



D-SUB/BNC

Use this menu to choose between the signal source connected to the BNC connector input and the signal source connected to the D-SUB connector input. Note: When you are finished, wait for a few seconds and the screen will blank then display the image from the new signal source(other computer). A cable must be connected to both inputs to use this function.

- Push the Menu (🛺) button.
- 2 Push the button or button until the Advanced screen is displayed. Push the button or button to select D-SUB/BNC.
- 3 Push the Menu (📦) button to open the D-SUB/BNC selection screen.
- 4 Use the button or button to select D-SUB or BNC.



Display timing ou can see the frequency (user

You can see the frequency (user control mode) used by the user, the polarity of the operational signals, the default frequency (default mode) set when you buy the monitor and the resolution level.

Note: These screens do not allow any changes to the settings, they are for information only.

- Push the Menu (😛) button.
- 2 Push the button or button until the Menu screen is displayed.
- 3 Push the Menu () button to open the Display Timing adjustment screen.
 - Use the button to see the user control mode and the default mode.

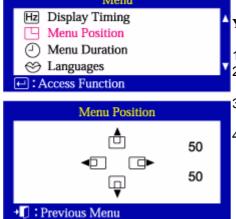
	User Tim	ing					
			•				
			•				
68.5k	85Hz	NP					
_	. mat						
Factory Timing							

Factory Timing					
31k/	60	640	x 480		
43k/	85	640	x 480	A	
31k/	70	720	x 400		
46k/	75		x 600		
53k/	85	800	x 600		
68.5	k	85Hz	NP		



Menu

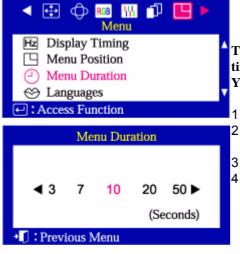
How to adjust



Menu Position

You can change the position where the OSD menu appears on your monitor.

- Push the Menu(🗐) button.
- 2 Push the button or button until the Menu screen is displayed. Push the button or button to select Menu Position.
 - Push the Menu() button to open the Menu Position adjustment screen.
 - Use the button or button to place the menu in the position you prefer.



Menu Duration

The menu will automatically turn off if no adjustments are made for a certain time period.

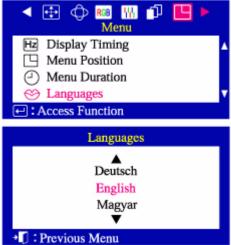
You can set the amount of time the menu will wait before it turns off.

- Push the Menu (🛺) button.
- Push the button or button until the Menu screen is displayed. Push the button or button to select Menu Duration.
- Push the Menu (📦) button to open the Menu Duration selection screen.
- Use the or buttons to select 3, 7, 10, 20 or 50 seconds. 10 seconds is the default value.



Menu

How to adjust



Languages

Follow these steps to change the language used in the menu. You can choose one of ten languages. English, German, French, Italian, Portuguese, Spanish, Swedish, Russian, Polish, or Magyar.

(Some OSD languages may not appear in some areas.)

The language chosen affects only the language of the OSD. It has no effect on any software running on the computer.

- Push the Menu (🛺) button.
- 2 Push the button or button until the Menu screen is displayed. Push the button or button to select Languages.
- Push the Menu (🗃) button to open the Languages selection screen.
- Use the button or button to select the language you would like to use.





The Highlight Zone function can be optimized with a moving image and so please use it in the moving image screen.



Menu

How to adjust





Highlight Zone

This function is to execute or cancel the Highlight Zone.

- 1 Push the Highlight button.
- 2 Push the Menu (📦) button.
- 3 Push the button or button to cancel, execute or enlarge the entire screen.





Position

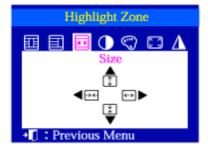
This function is to move the Highlight Zone horizontally or vertically.

- 1 Push the Highlight button.
- 2 Push the button or button to select the Screen Position Adjustment and then push the Menu () button.
- 3 Push the button or button to move the position of the Highlight Zone horizontally and use the push the button or button to move it vertically.



Menu

How to adjust







This function is to adjust the size of the Highlight Zone.

- 1 Push the Highlight button.
- 2 Push the button or button to select the Screen Size Adjustment and then push the Menu () button.
- 3 Push the button or button to move the size of the Highlight Zone horizontally and use the push the button or button to move it vertically.





Contrast

This function is to use the Contrast of the Highlight Zone.

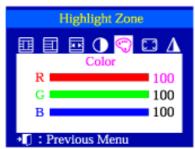
- 1 Push the Highlight button.
- 2 Push the button or button to select the Contrast Adjustment and then push the Menu () button.
- 3 Push the button or button to adjust the Contrast of the Highlight Zone.



Menu

How to adjust







This function is to adjust the color of the Highlight Zone.

- 1 Push the Highlight button.
- 2 Push the button or button to select the Color Adjustment and then push the Menu () button.
- 3 Push the button or button to select a color from R, G or B. Push the button or button to adjust the R, G or B color of the Highlight Zone.





Zoom

This function is to enlarge or reduce the Highlight Zone.

- 1 Push the Highlight button.
- 2 Push the button or button to select the Enlargement and Reduction Adjustment and then push the Menu () button
- 3 Push the button or button to enlarge or reduce the Highlight Zone.



Menu

How to adjust





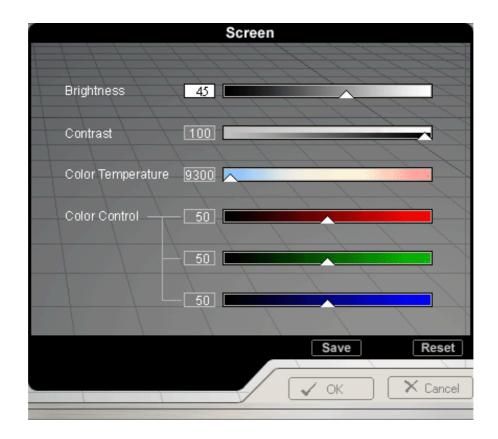
Sharpness

This function is to adjust the sharpness of the Highlight Zone.

- 1 Push the Highlight button.
- 2 Push the button or button to select the Sharpness Adjustment and then push the Menu () button.
- 3 Push the button or button to adjust the sharpness of the Highlight Zone.



Screen



1. Brightness

This setting allows you to adjust screen brightness for better viewing, depending on your lighting conditions, etc.

2. Contrast

This setting allows you to adjust screen contrast for better viewing, depending on the image and colors on the screen.

As the contrast value approaches 0, the picture becomes too dark to see clearly. Therefore, this value should be 25 or higher.

3. Color Temperature

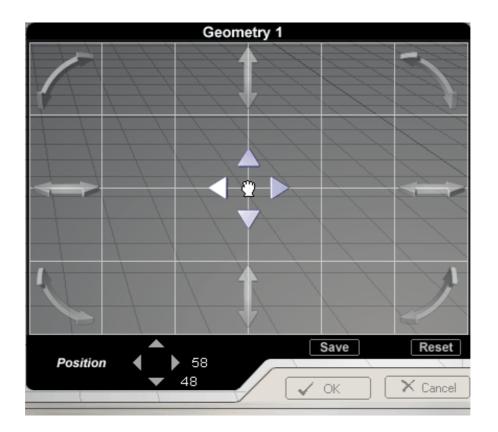
This setting adjusts the color temperature (also known as 'warmth'), in a range from 9300K (bluish hue) to 5000K (reddish hue).

4. Color Control

This setting adjusts the picture color tone by controlling each of the individual RGB hues.



Geometry 1



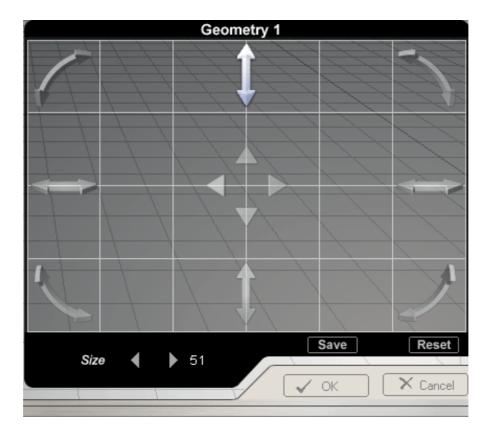
Position

This setting adjusts the vertical or horizontal position of the image area on the screen.

- **1. Selection and Adjustment**: Place and click your mouse pointer on the Position icon and then drag it as desired. The entire image area of the screen will move freely in any direction, according to the mouse cursor movement.
- **2. Fine Tuning :** When the mouse pointer is correctly placed over the Position icon, the icon color will change. Then, click the left mouse button. The fine tuning sub-menu appears in the bottom left corner of the screen. When the mouse cursor is correctly placed over any of the fine tuning arrows, the arrow color changes, as it does when an icon is selected. Click the left mouse button to achieve the desired Position fine tuning.
- 3. Holding the mouse button down will cause the value to change rapidly.







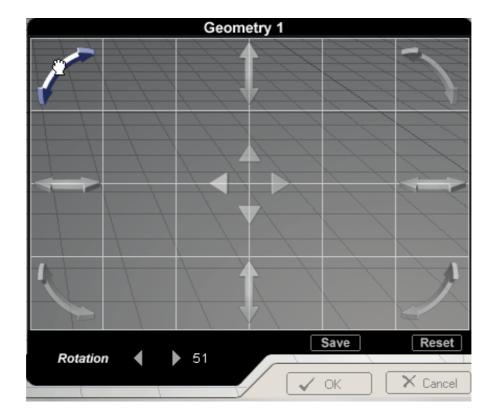
Size

This setting adjusts the image area height and width on the screen.

- **1. Selection and Adjustment**: Place and click your mouse cursor on the Size icon and then drag it as desired. The Horizontal Size (Width) adjustment icon is located on the left and right sides and the Vertical Size (Height) adjustment icon is located on the top and bottom parts of the screen. To increase the Width, drag outward on the grid where the icons are located. To decrease the Width, drag inward. To increase the Height, drag upward on the grid where the icons are located. To decrease the Height, drag downward.
- **2. Fine Tuning :** When the mouse pointer is correctly placed over the Size icon, the icon color changes. Then, click the left mouse button. The fine tuning sub-menu appears in the bottom left corner of the screen. When the mouse cursor is correctly placed over any of the Size fine tuning arrows, the arrow color changes, as it does when an icon is selected. Then, click the left mouse button to achieve the desired Size fine tuning.
- 3. Holding the mouse button down will cause the value to change rapidly.







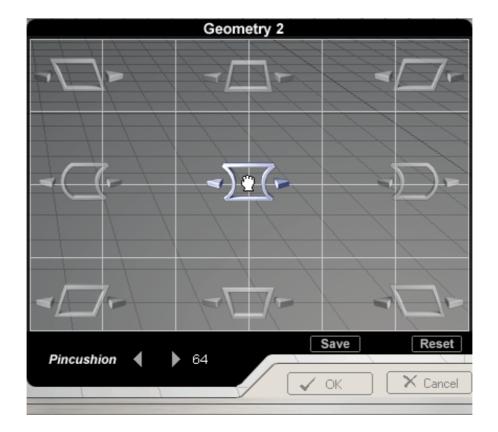
Rotation

This corrects the skewed image area on the screen.

- **1. Selection and Adjustment**: Place and click your mouse pointer on the Rotation icon and then drag as desired. The Rotation icon is located at the corners of the screen. To de-skew the image area, drag the mouse along the direction of the arrow.
- **2. Fine Tuning :** When the mouse pointer is correctly placed over the Rotation icon, the icon color changes. Then, click the left mouse button. The fine tuning sub-menu appears in the left bottom corner of the screen. When the mouse cursor is correctly placed over either of the left or right arrows, the arrow color changes, as it does when an icon is selected. Then, click the left mouse button to achieve the desired Rotation fine tuning.
- 3. Holding the mouse button down will cause the value to change rapidly.







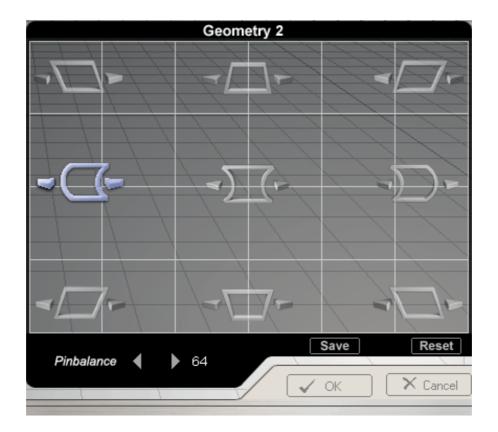
Pincushion

This setting straightens the right and left vertical pins of the screen.

- **1. Selection and Adjustment :** Place and click the mouse pointer on the Pincushion icon and then drag it as desired. The Pincushion icon is located in the center of the screen. If the mouse is dragged to the left, the image area becomes convex. If the mouse is dragged to the right, the image area becomes concave.
- **2. Fine Tuning :** When the mouse pointer is correctly placed over the Pincushion icon, the icon color changes. Then, click the left mouse button and the Pincushion fine tuning sub-menu appears in the bottom left corner of the screen. When the mouse cursor is correctly placed over any of the Pincushion fine tuning arrows, the arrow color changes, as it does when an icon is selected. Then, click the left mouse button to achieve the desired fine tuning.
- 3. Holding the mouse button down will cause the value to change rapidly.



Geometry 2



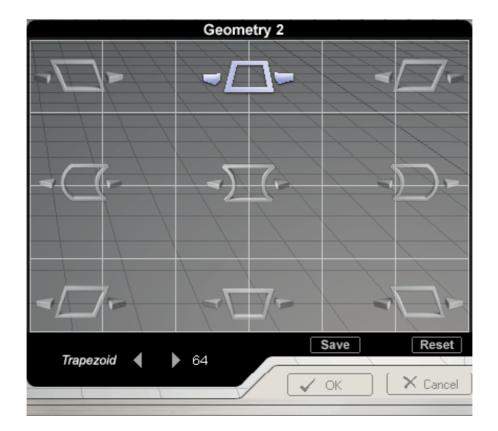
Pinbalance

This corrects the pin balance of the left and right side of the screen.

- **1. Selection and Adjustment**: Place and click your mouse pointer on the Pin Balance icon and then drag it as desired. The Pin Balance icon is located in the left and right corner. If the mouse is dragged to the left, the image area tilts to the left. If the mouse is dragged to the right, the image area becomes tilts to the right.
- **2. Fine Tuning :** When the mouse pointer is correctly placed over the Pin Balance icon, the icon color changes. Then, click the left mouse button and the Pin Balance fine tuning sub-menu appears in the left bottom corner of the screen. When the mouse cursor is correctly placed over either of the left or right arrows, the arrow color changes, as it does when an icon is selected. Then, click the left mouse button to achieve the desired Pin Balance fine tuning.
- 3. Holding the mouse button down will cause the value to change rapidly.







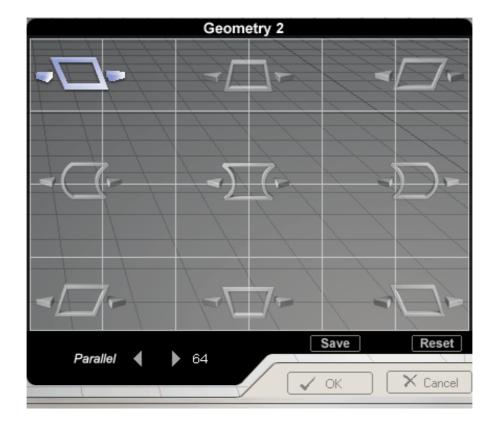
Trapezoid

This adjusts the horizontal width of the image area on the screen.

- **1. Selection and Adjustment**: Place and click the mouse pointer on the Trapezoid icon and then drag it as desired. The Trapezoid icon is located on the top and bottom sides. If the mouse is dragged to the left, the upper image area narrows and the bottom part widens. If the mouse is dragged to the right, the upper image area widens and the bottom part narrows.
- **2. Fine Tuning :** When the mouse pointer is correctly placed over the Trapezoid icon, the icon color changes. Then, click the left mouse button and the Trapezoid fine tuning sub-menu appears in the left bottom corner of the screen. When the mouse cursor is correctly placed over either of the left or right arrows, the arrow color changes, as it does when an icon is selected. Then, click the left mouse button to achieve the desired Trapezoid fine tuning.
- 3. Holding the mouse button down will cause the value to change rapidly.







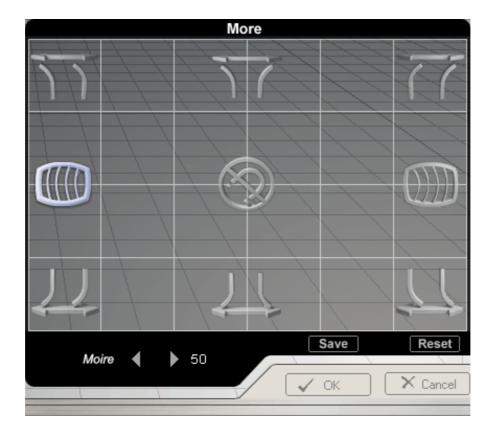
Parallel

This adjusts the parallelogram level of the screen.

- **1. Selection and Adjustment**: Place and click the mouse pointer on the Parallelogram icon and then drag as desired. The Parallelogram icon is located in the screen corners. If the mouse is dragged to the left, the image area tilts to the right. If the mouse is dragged to the right, the image area tilts to the left.
- **2. Fine Tuning :** When the mouse pointer is correctly placed over the Parallelogram icon, the icon color changes. Then, click the left mouse button to pop up the Parallelogram fine tuning sub-menu in the left bottom corner of the screen. When the mouse cursor is correctly placed over either of the left or right arrows, the arrow color changes, as it does when the icon is selected. Then, click the left mouse button to achieve the desired Parallelogram fine tuning.
- **3**. Holding the mouse button down will cause the value to change rapidly.







Moire

This setting removes wavy concentric circles or arc patterns.

- **1. Selection and Adjustment**: Place and click your mouse pointer on the Moire icon and then drag it as desired. The icon is located in the left and right corners of the screen. The value decreases when the arrow is dragged to the left, and increases when the arrow is dragged to the right.
- **2. Fine Tuning :** When the mouse pointer is correctly placed over the Moire icon, the icon color changes. Then, click the left mouse button and its fine tuning sub-menu appears in the bottom left corner of the screen. When the mouse cursor is correctly placed over either of the left or right arrows, the arrow color changes, as it does when an icon is selected. Then, click your left mouse button to achieve the desired Moire fine tuning.
- **3**. Holding the mouse button down will cause the value to change rapidly.







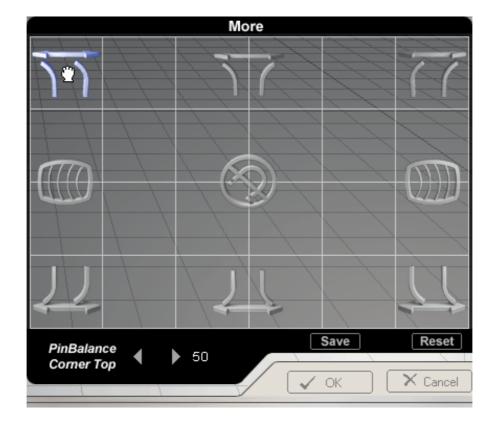
Sidepin Corner

This setting fine tunes the side pins of the screen corners in their opposite directions.

- **1. Selection and Adjustment**: Place and click the mouse pointer on the Corner Side Pin icon and then drag it as desired. The icons are divided into Top and Bottom Corner Side Pin icons and are located in the upper and lower parts, respectively. The upper icon is for the Top Corner Side pin adjustment while the lower icon is for the Bottom Corner Side Pin adjustment. If the mouse is dragged to the left, for both the icons, the corner side pins shrink inward. If the mouse is dragged to the right, they expand outward.
- **2. Fine Tuning :** When the mouse pointer is correctly placed over the Corner Side Pin icon, the icon color changes. Then, click the left mouse button and the Corner Side Pin fine tuning sub-menu appears in the bottom left corner of the screen. When the mouse cursor is correctly placed over either of the left or right arrows, the arrow color changes, as it does when an icon is selected. Then, click the left mouse button to achieve the desired fine tuning.
- **3**. Holding the mouse button down will cause the value to change rapidly.







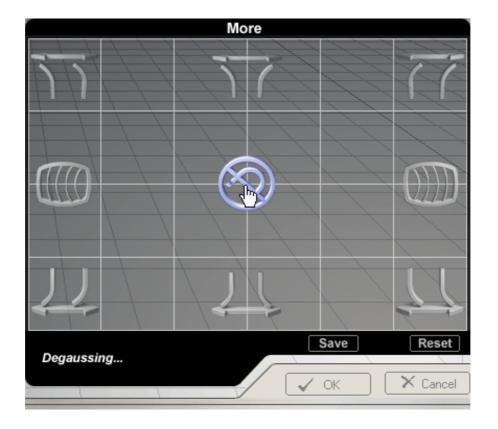
Pinbalance Corner

This setting fine tunes the side pins of the screen corners, by aligning them in the same direction.

- **1. Selection and Adjustment**: Place and click the mouse pointer on the Corner Pin Balance icon and drag it as desired. The Top Corner Pin Balance adjustment icon is located in the top left and right corners of the screen. The Bottom Corner Pin Balance adjustment icon is located in the bottom left and right corners of the screen. For both icons, if the mouse is dragged to the left, the corner side pins are curved to the left. If the mouse is dragged to the right, they are curved to the right.
- **2. Fine Tuning :** When the mouse pointer is correctly placed over the Corner Pin Balance icon, the icon color changes. Then, click the left mouse button, and its fine tuning sub-menu appears in the bottom left corner of the screen. When the mouse cursor is correctly placed over either of the left or right arrows, the arrow color changes, as it does when an icon is selected. Then, click the left mouse button to achieve the desired fine tuning.
- 3. Holding the mouse button down will cause the value to change rapidly.







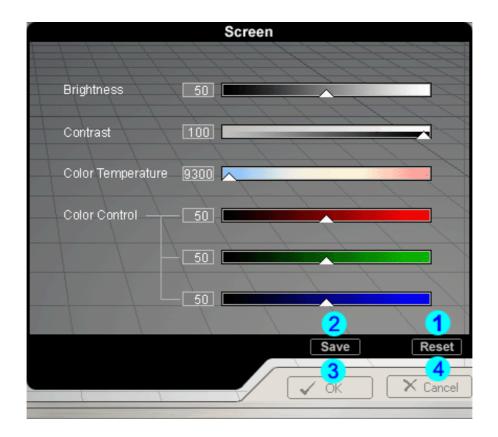
Degauss

This setting removes blurs on the screen, caused by interference from magnetic fields.

1. Selection and Adjustment : Place and click the mouse pointer on the Degauss icon that is located in the center of the screen. The picture image may become fuzzy for three to five seconds, with the monitor making a ticking sound when the icon is selected. Any fuzzy screen blotches are removed while the magnetic field affecting the screen is degaussed.



0thers



1. Reset

This setting cancels adjustments made using the current tab. However, please note that a Reset function is not provided for the Highlight Zone tabs because their nature does not require being reset.

2. Save

This setting saves all the adjustments made in the current session since the program was started.

3. OK

This closes the monitor setting, saves the current adjustments and exits the program.

4. Cancel

This returns the monitor settings to their original state before the current adjustments are saved and exits the program.



On-Screen Display(Highlight Zone II)

1. Automatic detect

- 1) When the Highlight program is running, the monitor automatically detects the video-playing portion of your multimedia program and activates the Highlight Zone feature. No selection is necessary.
- Major multimedia programs: Windows Media Player, RealPlayer 8.0, video players on the broadcasters;
 websites, etc.
 - However, Automatic Detect may not work with a DVD player. (In this case, change the setting to Manual Detect mode to create a Highlight Zone.)
- 3) Select Disable Auto Detect from the menu when you wish to deactivate the Automatic Detect feature. Since this disables the Auto Detect capability of the monitor, the monitor does not automatically create a Highlight Zone.
 - (When you first install the program, Automatic Detect is the default.)

2. Manual detect

In Manual Detect mode, you can either select a window or use the Drag function to create a Highlight Zone.

1 Selecting a window:

Click the Highlight icon() on the Windows taskbar once to activate() the cursor. Move the cursor onto the window of your choice and click once to Highlight the window. Drag: Click the Highlight icon() on the Windows taskbar once to activate() the cursor.

2 Drag

Click the Highlight icon(■)on the Windows taskbar once to activate(■)the cursor.

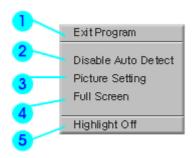
Click and hold the left mouse button, then drag the cursor to create a rectangle that covers the desired area. This rectangle becomes the Highlight Zone.

- Note 1: When the mouse cursor is activated() and it is necessary to de-activate it to use it for other tasks, right click your mouse, or put the activated cursor () on the taskbar and click. When de-activated, the icon on the screen changes back to the one shown before activation.
- Note 2 : You can determine whether the Highlight feature is on/off by the appearance of the icon on the taskbar. On(), Off()



On-Screen Display(Highlight Zone II)

3. Menu



1. Exit Program	Exits the Highlight program.	
2. Disable Auto Detect	Allows user to disable Auto Detect when necessary. Once selected, this function saves the selection and keeps it in the memory regardless of exiting or restarting the program.	When selected, a check mark (V) appears.
3. Picture Setting	Can be selected only when the Highlight Zone function is on. When selected, a menu window appears which can be used to adjust Contrast, Color and Sharpness within the Highlight Zone.	After changing the setting, select OK to save the changes, or Cancel to return to the previous setting.
4. Full Screen	Place the cursor on the Highlight icon()on the Windows taskbar and right click your mouse once. Then select Full Screen from the menu.	
5. Highlight Zone Off	Cancels the selection of a Highlight Zone and reverts to the original screen.	



On-Screen Display(Highlight Zone II)

4. Other Features

The Highlight Zone function remembers the variables of the selected areas in Automatic and Manual Detect modes, respectively.

- 1 If the window selected as a Highlight Zone is moved or its size changed, the Highlight Zone changes accordingly.
- 2 If an un-selected window overlaps the window selected as a Highlight Zone, the Highlight Zone of the selected window turns off.
 - However, it does not turn off the Zone completely and only makes the window shift to standby mode while the settings are saved. When the window is re-activated, the Highlight Zone turns on again with the settings unchanged.
- * When the Highlight Zone is created using the Drag function, the Zone functions independently of the above since it uses a random portion of the screen instead of a particular window.
- Note 1: How to cancel the saved variables of a selected window.
 - When a window selected in Automatic Detect mode is replaced with another window also selected in Automatic Detect mode, only the last selection is saved, and the Highlight Zone function is deactivated for the previous windows.
 - 2) In Manual Detect mode, only the window (or the frame window) created last is saved, and the Highlight Zone function is de-activated for the previous windows.
 - The Highlight Zone is de-selected when the program used to create the selected window is closed. The variables of the Highlight Zone created using the Drag function are not saved.
- Note 2: The changes saved under Picture Setting of the Highlight Zone menu remain effective even after the program is closed using Exit Program.
 - (The next time you start the Highlight Zone program, the settings are shown as previously saved.)



Check List

► Q & A

Self-Test Feature Check



Before calling for service, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call, the phone number on the Information section or contact your dealer.

Symptom	Check List Solutions		
No images on the screen. I cannot turn on the monitor.	Is the power cord connected properly?	Check the power cord connection and supply.	
on the monitor.	Can you see "No Connection, Check Signal Cable" on the screen?	Check the signal cable connection.	
	If the power is on, reboot the computer to see the initial screen(the login screen), which can be seen.	If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows ME/XP/2000) and then change the frequency of the video card. (Refer to the Preset Timing Modes)	
		Note: If the initial screen (the login screen) does not appear, contact a service center or your dealer.	
	Can you see "Sync. Out of Range, 68.7kHz 168Hz PP" on the screen?	You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can properly handle.	
		Adjust the maximum resolution and frequency that the monitor can properly handle.	
	There is no image on the screen. Is the power indicator on the monitor blinking at 1 second intervals?	The monitor is in PowerSaver mode. Press a key on the keyboard or move the mouse to activate the monitor and restore the image on the screen.	
I cannot see the On Screen Display.	Have you locked the On Screen Display (OSD) Menu to prevent changes?	Unlock the OSD by pressing the Menu button for at least 10 seconds.	
The image on the screen is shaking.	Check the monitor configuration to see if it is in Interlace Mode. (Interlace Mode: Vertical frequency 43Hz, 87Hz(i), etc)	The signal from the video card exceeds the maximum resolution and frequency of the monitor.	
	Are there any magnetic products such as a power adapter, speaker or a high voltage wire near by?	Move the monitor away from anything that can create a strong magnetic field.	
	Is the voltage stable?	The screen image can appear to shake or vibrate at a particular time of day due to low supply voltage.	
	The screen image can also appear to shake or vibrate if there is a problem with the video card or the computer's main board.		

The screen shows strange colors or just black and white.	Is the screen displaying only one color as if looking at the screen through a cellophane paper? Have the screen colors become	Check the signal cable connection. Make sure the video card is fully inserted in it's slot. Reboot the computer.	
	strange after running a program or due to a crash between applications?		
	Has the video card been set properly?	Set the video card by referring to the video card manual.	
The screen suddenly has become	Have you changed the video card or the driver?	Adjust screen image position and size using the OSD.	
unbalanced.	Have you adjusted the resolution or frequency to the monitor?	Adjust the resolution and frequency at the video card. (Refer to the Preset Timing Modes).	
	The screen can be unbalanced due to the cycle of the video card signals. Readjust Position by referring to the OSD.		
The screen is out of focus or OSD cannot be adjusted.	Have you adjusted the resolution or frequency on the monitor?	Adjust the resolution and frequency of the video card. (Refer to the Preset Timing Modes).	
The screen is partially distorted.	Are there any magnetic products such as an adapter, speaker or a high voltage wire	Enter the OSD and perform a "Degauss".	
	near the monitor?	Keep the monitor away from any magnetic products.	
LED is blinking but no images on the screen.	Is the frequency properly adjusted when checking the Display Timing on the menu?	Adjust the frequency properly by referring to the video card manual and the Preset Timing Modes.	
		(The maximum frequency per resolution may differ from product to product.)	
There are only 16 colors shown on the screen. The screen colors have	Have the Windows colors been set properly?	For Windows ME/XP/2000: Set the colors properly at the Control Panel, Display, Settings.	
changed after changing the video card.	Has the video card been set properly?	Set the video card by referring to the video card manual.	
There is a message that reads "Unrecognized	Have you installed the monitor driver?	Install the monitor driver according to the Driver Installation Instructions.	
monitor, Plug & Play (VESA DDC) monitor found".	See the video card manual to see if the Plug & Play (VESA DDC) function can be supported.	Install the monitor driver according to the Driver Installation Instructions.	

Check the following items if there is trouble with the monitor.

- 1. Check if the power cord and the video cables are properly connected to the computer.
- 2. Check if the computer beeps more than 3 times when booting. (If it does, request an after-service for the main board of the computer.)
- 3. If you installed a new video card or if you assembled the PC, check if the installed the adapter (video) driver and the monitor driver.
- 4. Check if the scanning ratio of the video screen is set at 75Hz or 85Hz. (Do not exceed 60Hz when using the maximum resolution.)
- If you have problems in installing the adapter (video) driver, boot the computer in Safe Mode, remove the Display Adapter at the "Control Panel, System, Device Administrator" and then reboot the computer to reinstall the adapter (video) driver.

Tips for Highlight Zone

- 1. To protect CDT against the screen brightness, the Highlight Zone function persists for three hours and then automatically stops. So please reset it to continue.

 2. When the Highlight Zone function is operated, the surrounding brightness of screen may
- become dark.
- 3. Depending on the video card you use, a color saturation phenomenon may occur in the Highlight Zone. In this case, slightly lower the contrast of the Highlight Zone and the color saturation will be reduced.

Note: If problems repeatedly occur, contact an authorized service center.



► Check List

► Q & A

Self-Test Feature Check

General Q & A | Highlight Zone II Q & A | MouScreen Q & A

1. General Q & A

Question	Answer		
How can I change the frequency?	Frequency can be changed by reconfiguring the video card.		
	Note that video card support can vary, depending on the version of the driver used. (Refer to the computer or the video card manual for details.)		
How can I adjust the resolution?	Windows ME/XP/2000: Set the resolution at the Control Panel , Display , Settings .		
	* Contact the video card manufacturer for details.		
How can I set the Power Saving function?	Windows ME/XP/2000: Set the function at BIOS-SETUP of the computer or the screen saver. (Refer to Windows/Computer Manual).		
The monitor makes a sound when it is turned on.	This is normal as some sound may be generated when the metal case and the electromagnet, which are installed to block any electromagnetic waves, interact with each other.		
How can I clean the outer case/Picture tube?	Disconnect the power cord and then clean the monitor with a soft cloth, using either a cleaning solution or plain water.		
	Do not leave any remains of the detergent nor scratch the case. Do not allow any water to go inside the monitor.		

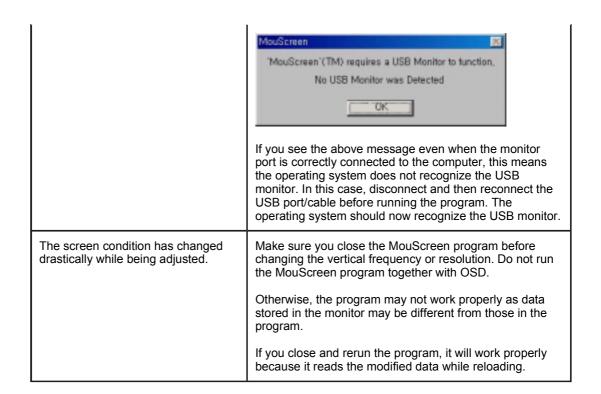
2. Highlight Zone II Q & A

Question	Answer	
The program does not function properly.	Highlight Zone II features a combination of circuitry and software built on proprietary technology of SEC and deploys USB for data communication. Therefore, the Highlight Zone II feature is found only on SEC monitors that support the feature and are equipped with a USB port. Check if your monitor supports the Highlight Zone II feature. Make sure the USB port connection is correct and secure.	
	If not, the Highlight Zone II icon will show a message saying, "USB Not Connected" ()Connect the monitor properly before using it. Neither Automatic Detect or nor Manual Detect function while the icon shows the message, "USB Not Connected". You can only exit the program.	

1			
Started a multimedia program but the Highlight Zone function does not automatically activate.	Check the Highlight Zone II menu and see if Disable Auto Detect is selected. When selected, the Highlight Zone function is not automatically activated.		
	The function may not be activated automatically for some multimedia programs. In this case, use Manual Detect instead. See Manual Detect under (Highlight Zone II)		
	Check the color settings and see if sRGB is selected. When sRGB is selected, the Highlight Zone II function remains de-activated in order to maintain the sRGB color attributes.		
Changed the setting to Highlight Zone in Manual Detect mode but the Highlight Zone feature has not been activated	Check the color setting of the monitor and see if sRGB is selected. When sRGB is selected, the Highlight Zone function remains de-activated in order to maintain the sRGB color attributes.		
Want to turn the Auto Detect function off.	Select Disable Auto Detect from the Highlight Zone II menu. See (Highlight Zone II functions)		
Don; t know whether the Highlight program is running.	Check the icon on the taskbar. (□) indicates the function is activated and (□)shows it has been deactivated.		
When a Highlight Zone is on, the rest of the screen dims.	Monitors with the Highlight Zone feature are equipped with an Automatic Beam Control function. When activated, this may cause slight dimming of the surrounding screen. However, this does not indicate a malfunction of any kind, and it is safe to continue to use the product.		
The Highlight Zone appears too dark.	Check the Contrast value in Picture Setting and adjust it for your ideal viewing. You can also check the RGB values and increase the values for a brighter Highlight Zone image.		
Want to adjust the position and size of the Highlight Zone.	You can change the position and/or the size of the Highlight Zone easily using the Manual Detect function. See (Highlight Zone II functions)		
Cannot select Picture Setting.	The Picture Setting feature can be selected only when the Highlight Zone function is on. Turn the Highlight Zone function on before selecting Picture Setting.		

3. MouScreen Q & A

Question	Answer
I cannot run the program.	Check to ensure the USB port of the monitor is connected to a root port or a hub USB port connected to the computer. If not connected properly, the MouScreen program will not run, displaying the following message:





- Check List
- ► Q & A
- Self-Test Feature Check

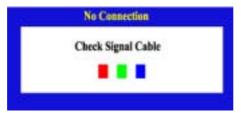
Self-Test Feature Check | Warning Messages | Environment | Useful Tips

Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly.



- 1. Turn off both your computer and the monitor.
- 2. Unplug the video cable from the back of the computer.
- 3. Turn on the monitor.

If your monitor works normally, the following screen appears.



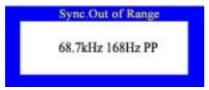
Failure of any of the boxes to appear indicates a problem with your monitor. This box also appears during normal operation if the video cable becomes disconnected or damaged.

Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor screen remains blank after using the previous procedure, check your video controller and computer system; your monitor is functioning properly.

Warning Messages

If there is something wrong with the input signal, a message appears on the screen or the screen goes blank although the power indicator LED is still on. The message may indicate that the monitor is out of scan range or that you need to check the signal cable.



Environment

The location and the position of the monitor may influence the quality and other features of the monitor.

- 1. If there are any sub woofer speakers near the monitor, unplug and relocate the woofer to another room.
- 2. Remove all electronic devices such as radios, fans, clocks and telephones that are within 3 feet (one meter) of the monitor.
- 3. Degauss the monitor if any devices were removed from the area.

Useful Tips

A monitor recreates visual signals received from the computer. Therefore, if there is trouble
with the computer or the video card, this can cause the monitor to become blank, have poor
coloring, noise, Sync. Out of Range, 68.7kHz 168Hz PP, etc. In this case, first check the
source of the problem, and then contact a service center or your dealer.

• Judging the monitor's working condition

If there is no image on the screen or a "Sync. Out of Range, 68.7kHz 168Hz PP" message comes up, disconnect the cable from the computer while the monitor is still powered on.

- If there is a message coming up on the screen or if the screen goes white, this means the monitor is in working condition.
- o In this case, check the computer for trouble.

Index | Safety Instructions | Introduction | Setup | On-Screen Display | Troubleshooting | Specifications Information



General

► PowerSaver

Preset Timing Modes General

Model Name SyncMaster 1100DF

Picture Tube

Type 21"(53cm) DynaFlat (50.8cm viewable)

Deflection angle 90 °

Dot Pitch 0.20mm (Horizontal)

Screen type Aluminized tri-color phosphor dot trio with black matrix.

Anti-doming invar shadow mask.

Multi-layer coated with anti-static, anti-glare

Maximum Resolution 2048 Dots, 1536 Lines Resolution(Standard) 1280 Dots, 1024 Lines

Active Display

Horizontal $393 \pm 3 \text{ mm}$ Vertical $295 \pm 3 \text{ mm}$

Synchronization

Horizontal $30 \sim 121 \text{ kHz}$ Vertical $50 \sim 160 \text{ Hz}$

Input Signal Definition

Video Signal RGB, Analog 0.7 Vpp positive at 75 ohms

Sync Signal Separate H/V sync, TTL level, positive or negative Composite, SOG

Signal cable 15-pin 3-row mini D-Sub connector, BNC

Display Color

Unlimited

Maximum Pixel Clock

340MHz

Power Supply

90 ~ 264VAC, 60/50 Hz ± 3Hz

Power Consumption

Less than 130W

Dimensions (WxDxH)

504 x 500 x 508mm (with Stand)

Weight 28.0 kg

Environmental considerations

Operating Temperature: $32^{\circ}F \sim 104^{\circ}F(0^{\circ}C \sim 40^{\circ}C)$

Humidity: 10% ~ 80%, non-condensing

Storage Temperature: $-4^{\circ}F \sim 113^{\circ}F (-20^{\circ}C \sim 45^{\circ}C)$

Humidity: 5% ~ 95%, non-condensing

Plug and Play Capability

This monitor can be installed on any Plug & Play compatible system. Interaction of the monitor and computer systems will provide the best operating conditions and monitor settings. In most cases, monitor installation will proceed automatically, unless the user wishes to select alternate settings.

Note: Design and specifications are subject to change without prior notice.



- General
- PowerSaver
- Preset Timing Modes

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPMS compliant video card installed in your computer. Use a software utility installed on your computer to set up this feature.

State	Normal Operation	Power-off Mode EPA/ENERGY 2000	
Power Indicator	Green	Green, Blinking	
Power Consumption	Less than 130W	Less than 2W	



This monitor is EPA ENERGY STAR® compliant and ENERGY2000 compliant when used with a computer equipped with VESA DPMS functionality. As an ENERGY STAR® Partner, SAMSUNG has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.



- ▶ General
- ► PowerSaver
- Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjust the screen as follows.

Table 1. Preset Timing Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
VESA, 640 x 480	43.269	85.008	36.000	-/-
VESA, 800 x 600	53.674	85.061	56.250	+/+
VESA, 1024 x 768	68.677	84.997	94.500	+/+
VESA, 1280 x 1024	91.146	85.024	157.50	+/+
VESA, 1600 x 1200	106.250	85.000	229.50	+/+
VESA, 1920 x 1440	112.500	75.000	297.00	-/+



Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle and the inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called Vertical Frequency or Refresh Rate. Unit: Hz



Service

- Terms
- Regulatory
- Natural Color
- Authority

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http://www.samsung.com.br/

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- Service
- Terms
- Regulatory
- Natural Color
- ▶ MouScreen™
- Authority

Dot Pitch

The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'. Unit: mm

Vertical Frequency

The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called Vertical Frequency or Refresh Rate. Unit: Hz

Example: If the same light repeats itself 60 times per second, this is regarded as 60 Hz.

Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

Interlace and Non-Interlace Methods

Showing the horizontal lines of the screen from the top to the bottom in order is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.

Plug & Play

This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function.

Resolution

The number of horizontal and vertical dots used to compose the screen image is called 'resolution'. This number shows the accuracy of the display. High resolution is good for performing multiple tasks as more image information can be shown on the screen.

Example: If the resolution is 1024 X 768, this means the screen is composed of 1024 horizontal dots (horizontal resolution) and 768 vertical lines (vertical resolution).

Highlight Zone II

The Highlight Zone ensures the clear and sharp display of animated multimedia or photo images by enhancing the brightness of a certain area on the screen.

Highlight Zone II features a combination of the circuitry and the program built on the proprietary technology of SEC.

This offers an easy-to-use interface that highlights the video-playing portion of your multimedia program by automatically detecting and highlight the desired area by dragging.

MouScreen™ S/W

MouScreen is a software program that controls the condition of the monitor by using the USB communications. It uses a mouse to control all the functions. You can select items or sub functions by clicking the left button on the mouse.

USB(Universal Serial Bus)

USB is a connectivity specification for attaching peripherals to computers and is designed to meet Microsoft Plug and Play specification.

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FCC Information | IC Compliance Notice | MPR II Compliance |

European Notice (Europe only) | PCT Notice | VCCI |

TCO'95-Ecological requirements for personal computers (TCO'95 applied model only)

TCO'99-Ecological requirements for personal computers (TCO'99 applied model only)

TCO'03-Ecological requirements for personal computers (TCO'03 applied model only) TCO'03 Recycling Information (TCO'03 applied model only)

FCC Information

User Instructions

The Federal Communications Commission Radio Frequency Interference Statement includes the following warning:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

User Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

The party responsible for product compliance: SAMSUNG ELECTRONICS CO., LTD America QA Lab of Samsung 3351 Michelson Drive, Suite #290, Irvine, CA92612 USA Tel) 949-975-7310 Fax) 949-922-8301

Warning

User must use shielded signal interface cables to maintain FCC compliance for the product.

Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal to or exceeds the monitor voltage rating.

For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6-15P type (tandem blades) plug cap.

IC Compliance Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations of ICES-003.

Cet appareil Numérique de classe B respecte toutes les exigences du Règlemont NMB-03 sur les équipements produisant des interférences au Canada.

MPR II Compliance

This monitor complies with SWEDAC(MPR II) recommendations for reduced electric and magnetic fields.

European Notice (Europe only)

Products with the CE Marking comply with both the EMC Directive (89/336/EEC), (92/31/EEC), (93/68/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN55022:1998+A1:2000 Radio Frequency Interference
- EN55024:1998 Electromagnetic Immunity
- EN61000-3-2:1995+A1/A2:1998 Power Line Harmonics
- EN61000-3-3:1995 Voltage Fluctuations

PCT Notice



VCCI

This is a Class B product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

TCO'95-Ecological requirements for personal computers (TCO'95 applied model only)



AB general requirements

AB2 Written Eco-document acompanying the products

Congratulations! You have just purchased a TCO 95 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and to the further development of environmentally-adapted electronic products.

Why do we have environmentally-labelled monitors?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem as far as monitors and other electronic equipment are concerned is that environmentally harmful substances are used both in the products and during their manufacture. Since it has not been possible so far for the majority of electronic equipment to be recycled in a satisfactory way, most of these potentially damaging substances sooner or later enter Nature.

There are also other characteristics of a monitor, such as energy consumption levels, that are important from both the working and natural environment viewpoints. Since all types of conventional electricity generation have a negative effect on the environment (acidic and climate-influencing emissions, radioactive waste, etc.) it is vital to conserve energy. Electronic equipment

in offices consumes an enormous amount of energy, since it is often routinely left running continuously.

What does labelling involve?

This product meets the requirements for the TCO'95 scheme, which provides for international environmental labelling of monitors. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Naturskyddsforeningen (The Swedish Society for Nature Conservation) and NUTEK (The National Board for Industrial and Technical Development in Sweden).

The requirements cover a wide range of issues: environment, ergonomics, usability, emission of electrical and magnetic fields, energy consumption and electrical and fire safety.

The environmental demands concern among other things restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons), and chlorinated solvents. The product must be prepared for recycling and the manufacturer is obliged to have an environmental plan, which must be adhered to in each country where the company conducts its operations policy. The energy requirements include a demand that the monitor after a certain period of inactivity shall reduce its power consumption to a lower level, in one or more stages. The length of time to reactivate the monitor shall be reasonable for the user.

Labelled products must meet strict environmental demands, for example in respect of the reduction of electric and magnetic fields, along with physical and visual ergonomics and good usability.

TCO Development Unit 1996-11-29

On the page this folder you will find a brief summary of the environmental requirements met by this product.

The complere environmental criteria document may be ordered from:

TCO Development Unit

S-11494 Stockholm

Sweden

Fax: +46 8 782 92 07

E-mail (Internet): development@tco.se

Current information regarding TCO'95-approved and labelled products may also be obtained via the Internet, using the address:

http://www.tco-info.com/

TCO'95 is a co-operative project between(3 logos)

Environmental Requirements

Brominated flame retardants are present in printed circuit boards, cables, wires, casings and housings. In turn, they delay the spread of fire. Up to thirty percent of the plastic in a computer casing can consist of flame retardant substances. These are related to another group of environmental toxins, PCBs, which are suspected to give rise to similar harm, including reproductive damage in fish eating birds and mammals, due to the bioaccumulative processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

• TCO'95 demand requires that plastic components weighing more than 25 grams must not contain organically bound chlorine and bromine.

Lead

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning.

• TCO'95 requirement Permits the inclusion of lead since no replacement has yet been developed.

Cadmium

Cadmium is present in rechargeable batteries and in the colour generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses.

• TCO'95 requirement states that batteries may not contain more than 25 ppm (parts per million) of cadmium. The colour-generating layers of display screens must not contain any cadmium.

Mercury

Mercury is sometimes found in batteries, relays and switches. Mercury damages the nervous system and is toxic in high doses.

• TCO'95 requirement states that batteries may not contain more than 25 ppm (parts per million) of mercury. It also demands that no mercury is present in any of the electrical or electronics components concerned with the display unit.

CFCs (freons)

CFCs (freons) are sometimes used for washing printed circuit boards and in the manufacturing of expanded foam for packaging. CFCs break down ozone and thereby damage the ozone layer in

the stratosphere, causing increased reception on Earth of ultraviolet light with consequent increased risks of skin cancer (malignant melanoma).

• The relevant TCO'95 requirement: Neither CFCs nor HCFCs may be used during the manufacturing of the product or its packaging.

TCO'99-Ecological requirements for personal computers (TCO'99 applied model only)



Congratulations!

You have just purchased a TCO'99 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

This product meets the requirements for the TCO'99 scheme which provides for an international environmental and quality labelling labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO(The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen(The Swedish Society for Nature Conservation), Statens Energimyndighet(The Swedish National Energy Administration) and SEMKO AB.

The requirements cover a wide range of issuse: environment, ergonomics, usability, reduction of electric and magnetic fields, energy consumption and electrical safety.

Why do we have environmentally labelled computers?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during their manufacture. Since it is not so far possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances sooner or later enter nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of electricity generation have a negative effect on the environment (e.g. acidic and climate-influencing emissions, radioactive waste), it is vital to save energy. Electronics equipment in offices is often left running continuously and thereby consumes a lot of energy.

What does labelling involve?

The environmental demands has been developed by Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation). These demands impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs(freons)and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental policy which must be adhered to in each country where the company implements its operational policy.

The energy requirements include a demand that the computer and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the computer shall be reasonable for the user.

Below you will find a brief summary of the environmental requirements met by this product. The complete environmental criteria document may be ordered from:

TCO Development

SE-114 94 Stockholm, Sweden

Fax: +46 8 782 92 07

Email (Internet): development@tco.se

Current information regarding TCO'99 approved and labelled products may also be obtained via the Internet, using the address: http://www.tco-info.com/

Environmental requirements

Flame retardants

Flame retardants are present in printed circuit boards, cables, wires, casings and housings. Their purpose is to prevent, or at least to delay the spread of fire. Up to 30% of the plastic in a computer casing can consist of flame retardant substances. Most flame retardants contain bromine or chloride, and those flame retardants are chemically related to another group of environmental

toxins, PCBs. Both the flame retardants containing bromine or chloride and the PCBs are suspected of giving rise to severe health effects, including reproductive damage in fish-eating birds and mammals, due to the bio-accumulative* processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

The relevant TCO'99 demand requires that plastic components weighing more than 25 grams must not contain flame retardants with organically bound bromine or chlorine. Flame retardants are allowed in the printed circuit boards since no substitutes are available.

Cadmium**

Cadmium is present in rechargeable batteries and in the colour-generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries, the colour-generating layers of display screens and the electrical or electronics components must not contain any cadmium.

Mercury**

Mercury is sometimes found in batteries, relays and switches. It damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries may not contain any mercury. It also demands that mercury is not present in any of the electrical or electronics components associated with the labelled unit. There is however one exception. Mercury is, for the time being, permitted in the back light system of flat panel monitors as today there is no commercially available alternative. TCO aims on removing this exception when a Mercury free alternative is available.

CFCs (freons)

The relevant TCO'99 requirement states that neither CFCs nor HCFCs may be used during the manufacture and assembly of the product. CFCs (freons) are sometimes used for washing printed circuit boards. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on earth of ultraviolet light with e.g. increased risks of skin cancer (malignant melanoma) as a consequence.

Lead**

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning. The relevant TCO'99 requirement permits the inclusion of lead since no replacement has yet been developed.

TCO'03-Ecological requirements for personal computers (TCO'03 applied model only)



Congratulations!

The display you have just purchased carries the TCO'03 Displays label. This means that your display is designed, manufactured and tested according to some of the strictest quality and environmental requirements in the world. This makes for a high performance product, designed with the user in focus that also minimizes the impact on our natural environment.

Some of the features of the TCO'03 Display requirements:

Ergonomics

Good visual ergonomics and image quality in order to improve the working environment for the user and to reduce sight and strain problems. Important parameters are luminance, contrast, resolution, reflectance, colour rendition and image stability.

Energy

- · Energy-saving mode after a certain time beneficial both for the user and the environment
- Electrical safety

Emissions

Electromagnetic fields

^{*} Bio-accumulative is defined as substances which accumulate within living organisms.

^{**} Lead, Cadmium and Mercury are heavy metals which are Bio-accumulative.

· Noise emissions

Ecology

- The product must be prepared for recycling and the manufacturer must have a certified environmental management system such as EMAS or ISO 14 000
- Restrictions on
- o chlorinated and brominated flame retardants and polymers
- o heavy metals such as cadmium, mercury and lead.

The requirements included in this label have been developed by TCO Development in cooperation with scientists, experts, users as well as manufacturers all over the world. Since the end of the 1980s TCO has been involved in influencing the development of IT equipment in a more user-friendly direction. Our labelling system started with displays in 1992 and is now requested by users and IT-manufacturers all over the world.

For more information, Please visit www.tcodevelopment.com

TCO'03 Recycling Information (TCO'03 applied model only)

[European Residents Only]

For recycling information for TCO'03 certified monitors, for the residents in the following countries, please contact the company corresponding to your region of residence. For those who reside in other countries, please contact a nearest local Samsung dealer for recycling information for the products to be treated in environmentally acceptable way.

	[U.S.A. Residents Only]	[European Residents Only]		
	U.S.A.	SWEDEN	NORWAY	GERMANY
COMPANY	Solid Waste Transfer & Recycling Inc	ELKRETSEN	Elektronikkretur AS	vfw AG
ADDRESS	442 Frelinghuysen Ave Newark, NJ 07114	ELKRETSEN Box 1357, 111 83 Stockholm Barnhusgatan 3, 4 tr.	6454 Etterstad 0602 Oslo Fyrstikkalln 3B	Max Plank Strasse 42 50858 Collogne Germany
TELEPHONE	973-565-0181	08-545 212 90	23 06 07 40	49 0 2234 9587 - 0
FAX	Fax: 973-565-9485	08-545 212 99	23 06 07 41	
E- MAIL	none	info@el-kretsen.se	adm@elektronikkretur.no	vfw.info@vfw-ag.de
HOME PAGE	http://www.bcua.org/Solid Waste_Disposal.htm	http://www.el- kretsen.se/	http://www.elretur.no/	



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Natural Color Software Program



One of the recent problems in using a computer is that the color of the images printed out by a printer or other images scanned by a scanner or a digital camera are not the same as those shown on the monitor.

The Natural Color S/W is the very solution for this problem. It is a color administration system developed by Samsung Electronics in association with Korea Electronics & Telecommunications Research Institute (ETRI). This system is available only for Samsung monitors and makes the color of the images on the monitor the same as the printed or scanned images. For more information, refer to Help (F1) in the software program.

How to install the Natural Color software

Insert the CD included with the Samsung monitor into the CD-ROM Drive. Then, the initial screen of the program installation will be executed. Click Natural Color on the initial screen to install the Natural Color software. To install the program manually, insert the CD included with the Samsung monitor into the CD-ROM Drive, click the [Start] button of Windows and then select [Execute].

Enter D:\color\eng\setup.exe and then press the [Enter] key. (If the drive where the CD is inserted is not D:\, enter the applicable drive.)

How to delete the Natural Color software program

Select [Setting]/[Control Panel] on the [Start] menu and then double-click [Add/Delete a program].

Select Natural Color from the list and then click the [Add/Delete] button.



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MouScreen™ S/W

MouScreen Program requires built-in USB for use with SyncMaster Products. (Note: SyncMaster 1200NF does not support MouScreen.)

MouScreen is a software program that controls your monitor settings using the USB (Universal Serial Bus) interface.

All monitor settings, adjustments and controls can be managed by the use of the mouse alone. You may select menus or sub-functions by simply clicking the left mouse button and then making the adjustment by dragging the selected icons.

Installation Requirements

As MouScreen uses a USB connection with your host system, MouScreen can be installed only on systems with a Samsung monitor that is equipped with a USB port.

Before Running MouScreen V2.01

First, check to ensure the USB port of the monitor is connected to your computer by a root or hub USB port.

If not connected properly, the MouScreen program will not run, displaying the following message:



If the above message is displayed, and the monitor is properly connected to the computer, this means that the operating system has not recognized the USB monitor. Disconnect and then reconnect the USB connection, and run the program again.

Uninstalling MouScreen V2.01 from Your Computer

To uninstall MouScreen 2.01 from your system, follow either one of these procedures:

Click Start, Programs, MouScreen 2.01, Uninstall MouScreen 2.01 on your Windows' desktop or click Settings, Control Panel, Program Add/Remove and then click Add/Remove after selecting MouScreen 2.01 in the Program list.

Matters to note when changing modes

Make sure your MouScreen program is closed before changing the vertical frequency or resolution.

Otherwise, the program may not work properly as data stored in the monitor may be different from those in the program.

If you close and rerun the program, it will work properly because it reads the modified data.

Conflict with OSD

In principle, the OSD (on-screen display) does not work when this program runs on the system. As the program shares internal data with the OSD, it will not work properly. Close the MouScreen program before running the OSD.





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